

DWPI

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TITLE: Stable liposome prepn. - contains erythropoietin

PATENT-ASSIGNEE: CHUGAI PHARM CO LTD[CHUS]

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PATENT-FAMILY:

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JP 08231417 A	September 10, 1996	N/A	010	A61K 038/22

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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ABSTRACTED-PUB-NO: JP08231417A

BASIC-ABSTRACT: Liposome prepn. contains erythropoietin (Eco). The lipid spore wall of liposome pref. comprises at least 1 of natural or synthetic lecithin, cephalin and sphingomyelin and opt. sterols (SA) and/or sterol glycosides (SAG), partic. at least 1 of beta-sitosterol, campesterol, stigmasterol, bradykasterol and cholesterol (Ch).ADVANTAGE - The liposome prepn. is stable. In an example, in 50 ml of CHCl3, 105 micro mole dipalmitoyl phosphatidyl chlorine (DPPC) and 30 micro mole of soybean sterol (SS) or soybean sterol glycoside (SG) at molar ratios of DPPC:SS or SG = 7:2 were dissolved and evaporated to give a thin film of lipid. The lipid film was re-dissolved in each 3 ml mixt. of CHCl3 and (i-Pr) 20 and 1 ml each of 180000 IU/ml of Epo and phosphate buffered saline soln. were added and sonicated for 4 mins. to give a homogeneous mixt. of W/O emulsion. The residue was flashed with N2 stream, diluted with PBS, and filtered through a polycarbonate membrane filter to give Epo enclosed in SS-liposome or SG-liposome. The obtd. SS-liposome or SG-liposome suspension was subcutaneously admin. to male 9-week-old Wistar rats. Blood samples drawn 2, 4 and 7 days after admin. show elevated circulating Epo contg. reticulocytes up to 56900 +/- 3100, and 51500 +/- 2700/micro L, respectively.

CHOSEN-DRAWING: Dwg.0/6

DERWENT-CLASS: B04

CPI-CODES: B01-D01; B01-D02; B04-B01B; B04-H07; B05-B01P; B12-M11F;